interface **113***a*, but no device is connected to interface **113**. Interface module **112** may send connection signal **215** to processing module **114**. In some examples, identification numbers, such as serial numbers, may be assigned to each interface **113**.

[0027] Processing module **114** may receive connection signal **215** and, based on connection signal **215**, may determine that a device may be connected to interface **113***a*. In some examples, memory **118** of energy controller **110** may include a map that may indicate correspondence between each interface **113** and each bit position of connection signal **215**. For example, memory **118** may include a map that may be effective to indicate that a least significant bit of connection signal **215** ("01") may correspond to interface **113***a*. Processing module **114** may be further configured to analyze the map stored in memory **118** in order to determine that a device may be connected to interface **113***a*. In response to the determination that a device is connected to interface **113***a*, energy controller **110**, or processing module **114**, may send a request **230** to the device connected to interface **113***a* to request an identification of the device connected to interface **113***a*. Request **230** may further be a request for an indication related to a presence of a monitoring application **201** in the device connected to interface **113***a*. Monitoring application **201** may be an application that may include instructions effective to instruct devices **132** to collect and/or generate device data **138** in order to implement system **100**. In some examples, device **132***a* may respond to request **230** to indicate that device **132***a* may not include monitoring application **201**. In response to an absence of monitoring application **201** in device **132***a*, processing module **114** may send monitoring application **201** to device **132***a* or may send instructions and data to device **132***a* to facilitate an installation of monitoring application **201** in device **132***a*.

[0028] In an example, device **132***a* may respond to request **230** to indicate that device **132***a* includes monitoring application **201**, and may send an identification of device **132***a* to energy controller **110**. Monitoring application **201** may be stored in device memory **240***a* of device **132***a*. Processing module **114**, in response to learning of the presence of monitoring application **201** in device **132***a*, may search for the identification of device **132***a* in device database **212**. Device database **212** may include data such as identification of devices **132** and/or device application lists **222** (including device application list **222***a*, **222***b*) of devices **132**. Device application lists **222** may include indications, or one or more lists, of device applications installed in each device among devices **132**. For example, device **132***a* may include fifty different device applications, and device application list **222***a* may include indications of the fifty device applications. In some examples, device database **212** may include application data **224** (further described below) for each device application included in device application list **222***a*. Continuing with the example, processing module **114** may locate device application list **222***a* in device database **212** based on the identification of device **132***a*. In response to locating device application list **222***a*, processing module **114** may request device **132***a* to provide indications of device applications that may be different from device applications indicated by device application list **222***a*. In the example, device application **220** of device **132***a* may be a device application not indicated by device application list **222***a*. In response to device application **220** not being indicated by device application list **222***a*, processing module **114** may perform energy test **250** on device **132***a* to determine application data **224** for device application **220** and device **132***a*.

[0029] Prior to execution of energy test **250** on device **132***a*, processing module **114** may determine by, for example, communicating with device **132***a*, whether a device application is being executed by device **132***a*. When no device application is being executed by device **132***a*, processing module **114** may determine by, for example, communicating with device **132***a*, whether a device application is being suspended, or in a suspended state, by device **132***a*. When no device application is being suspended, or executed, processing module **114** may wait until a device application is being executed by device **132***a* in order to execute energy test **250**. In some examples, processing module **114** may instruct device **132***a* to execute device applications of device **132***a* successively in order to execute energy test **250**.

[0030] In the example, when device **132***a* starts an execution of device application **220**, processing module **114** may detect the execution of device application **220** by, for example, receiving a signal or message from device **132***a*. Instructions of energy test **250** may instruct device **132***a* to terminate device applications which are different from device application **220** in order for device **132***a* to generate execution data **242**. In some examples, energy controller **110** may send an instruction different from instructions of energy test **250** to instruct device **132***a* to terminate device applications which are different from device application **220**. Execution data **242** may include an indication of a start energy quantity of device **132***a* at a start time of execution of device application **220**, and may include an indication of an end energy quantity of device **132***a* at an end time of execution of device application **220**. For example, execution data **242** may indicate that device **132***a* has thirty percent energy remaining at a start time of 2:30 PM, and device **132***a* has twenty percent energy remaining at an end time of 2:40 PM. Device **132***a* may send execution data **242** to processing module **114** through interface **113***a* of interface module **112**. Processing module **114** may receive execution data **242** and may store execution data **242** in memory **118**.

[0031] In response to the completion of execution of device application **220**, instructions of energy test **250** may instruct device **132***a* to maintain device application **220** in a suspended state for a period of time. Instructions of energy test **250** may further instruct device **132***a* to maintain device applications different from device application **220** in a terminated state for the period of time. For example, instructions of energy test **250** may instruct device **132***a* to maintain device application **220** in suspended state for ten minutes. In some examples, energy controller **110** may detect a suspension state of device application **220** after an execution of device application **220**. For example, device **132***a* may send a message to energy controller **110** in response to a completion of execution of device application **220** to notify energy controller **110** that device application **220** may now go into a suspended state. In some examples, device **132***a* may send a message to energy controller **110** to indicate that device application **220** is in suspended state, and device applications different from device application **220** are in terminated state. Energy controller **110** may receive the message from device **132***a* in order to detect, or determine, that device application **220** is in a suspended state. Device **132***a* may generate suspension data **244**, where suspension data **244** may include an indication of a start energy quantity of